(1-17)**HOT WORK PERMIT** THIS PERMIT IS VALID FOR NO MORE THAN 12 HOURS FROM THE TIME ISSUED NOAA SHIP Check one **PRECAUTIONS** Met N/A DATE TIME Hot work operator is certified to perform **PERMIT** П **ISSUED** the hot work indicated. DATE TIME **PERMIT** Hot work operator is equipped with **EXPIRES** appropriate PPE, including respirator. TYPE of HOT WORK PERMITTED Hot work equipment is fully operable ☐ WELDING CUTTING and is in good condition. BRAZING GRINDING Hot work shielding is provided to protect SANDBLASTING CHIPPING others from arc. LOCATION of PERMITTED HOT WORK Competent Person measured oxygen and explosive gas levels. Certified area safe for hot work. Marine Chemist issued a "Safe for Hot Work" certificate for locations within or near combustible liquid tanks. HOT WORK OPERATOR Sufficient ventilation is provided to remove smoke and vapor from the hot work area. Local smoke and heat detection system is secured in hot work area (if practical). CREWMEMBER CONTRACTOR FIRE WATCH PERSONNEL Marine Chemist issued a "Safe for П Hotwork" certificate, as required for Confined Space. Gas cylinders, manifolds and electric arc units are located outside of the confined space designated for hot work. Combustible materials are removed from П hot work area, draped with fire proof CREWMEMBER CONTRACTOR cloths or protected with metal shields. **RESTRICTIONS / COMMENTS** In adjacent spaces, flammable liquids are removed and combustible materials are moved away from the bulkheads. In the hot work area and adjacent spaces, Fire Watch personnel are assigned, as required. SIGNATURE of COMPETENT PERSON Fire Watch personnel are supplied with operable fire extinguishing equipment, ready for immediate use. I verify the above location has been examined, Fire Watch personnel are trained in the fire prevention precautions have been taken, use of fire extinguishing equipment and and permission for hot work is authorized. sounding the fire alarm. CHIEF MARINE ENGINEER (CERTIFIES AREA SAFE for HOT WORK) Fire Watch is assigned for the full period of hot work, plus 30 minutes, including all hot work break periods. OOD (at COMMENCEMENT of HOT WORK) Fire Watch personnel have established radio communications with the hot work operator and the OOD. COMMANDING OFFICER (APPROVES HOT WORK PERMIT) Electrical equipment in the hot work

area is de-energized. Lock out / Tag out notification posted, as required.